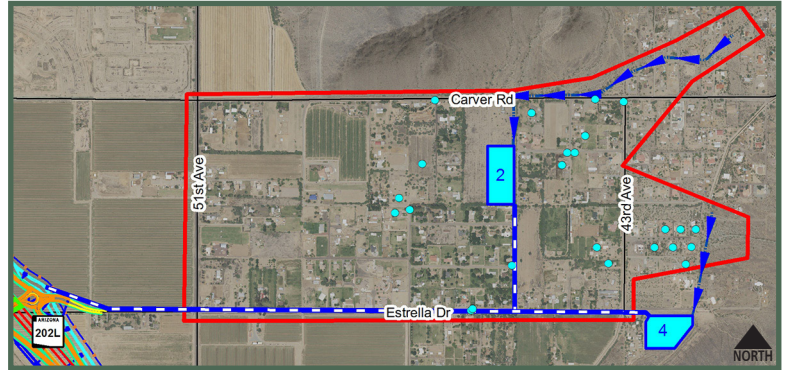


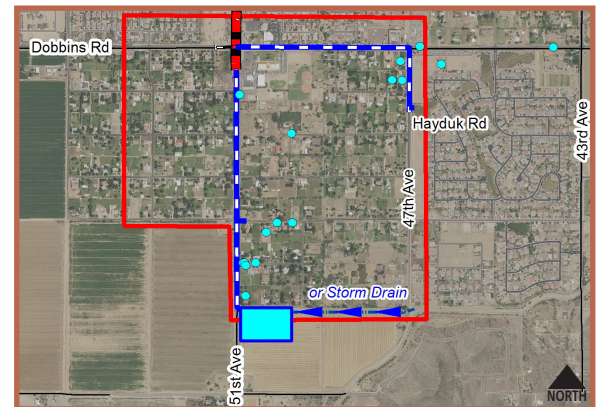
## ALTERNATIVE B

- Construct a diversion channel to a new Basin 4 at 43rd Avenue and Estrella Drive
- Drain new Basin 4 into a storm drain along Estrella Drive to the South Mountain Freeway/ Loop 202 drainage infrastructure
- Construct Basin 2 and create a channel for the upstream wash
- Drain Basin 2 along 45th Avenue into a new storm drain in Estrella Drive



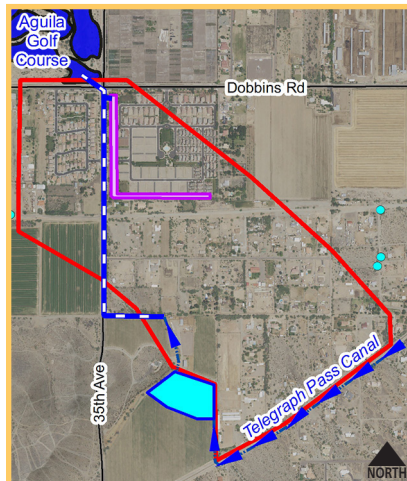
## ALTERNATIVE B

- Extend the existing storm drain in 51st Avenue south to Sunrise Drive
- Add a new basin at 51st Avenue and Sunrise Drive
- Add a channel (or storm drain) along Sunrise Drive to pick up flow in Sunrise Drive
- Add laterals and inlets at minor streets along 51st Avenue to drain the existing neighborhood
- Extend storm drain in Dobbins to 47th Avenue and connect to existing basin at 47th Avenue and Hayduk Road
- Add laterals and inlets along 47th Avenue south of Dobbins Road



## ALTERNATIVE B

- Construct a diversion channel along the Telegraph Pass Canal that drains into a new basin
- Drain the new basin into the existing channel then to a new storm drain in Olney Avenue
- The new Olney Avenue storm drain will continue north at 35th Avenue and drain into the Aguila Golf Course



### Legend for AoMI Maps 1–3 and 6

- Drainage Complaints
- Existing Private Channel
- Existing Basin

#### Potential Alternatives

- Basins
- Channel
- Storm Drain

#### Existing Storm Drain

- < 12 inches
- 13 - 24
- 25 - 36
- 37 - 60
- 61 - 84
- > 85 inches

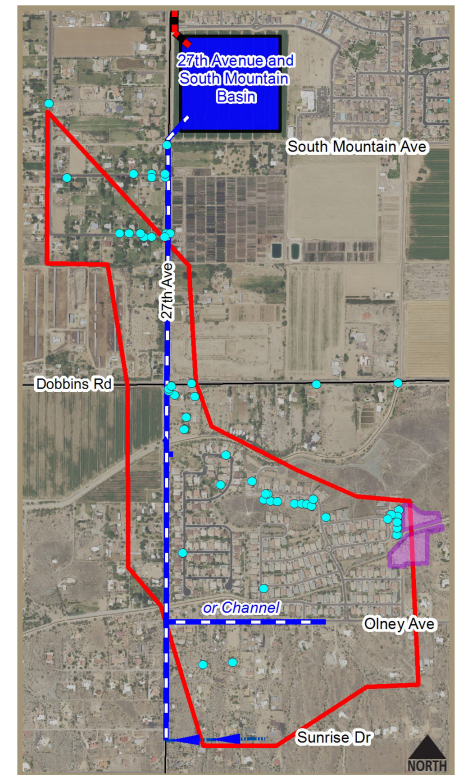
Maps not to scale.

#### 4. 27th Avenue and Olney Avenue

The 27th Avenue and Olney Avenue area's greatest flooding problems are the result of major washes that come together along Olney Avenue and along 23rd Avenue overwhelming the drainage infrastructure of existing subdivisions to the north and west. Downstream flooding problems occur because there is no drainage infrastructure to carry stormwater to the recently constructed detention basin at 27th and South Mountain Avenues.

##### ALTERNATIVE A

- Add a storm drain in 27th Avenue from Sunrise Drive to a new outfall in the 27th and South Mountain Avenue Basin
- Construct a 10-year diversion channel within the Sunrise Drive right-of-way to drain into a new 27th Avenue storm drain
- Construct a 10-year diversion channel (or storm drain) upstream or south of Southern Highlands subdivision to drain to the new 27th Avenue storm drain
- Construct a connection from existing Citrus Mountain subdivision basin to the new 27th Avenue storm drain
- Construct the Phoenix Hazard Mitigation Assistance (HMA) proposed basins at the east end of Southern Highlands subdivision



#### 5. 19th Avenue and Dobbins Road

In this area, most flooding problems are the result of two major washes that join south of the 15th Avenue and Dobbins. This combined flow spills over the existing channel, flooding Dobbins Road, the fire station, and the agricultural field to the north. Stormwater ponds along the Western Canal and all this combined flow passes through the narrow area along Dobbins Road at the Western Canal, and floods the intersection of 19th Avenue and Dobbins Road and other downstream areas.

##### ALTERNATIVE A

- Extend 7th Avenue storm drain to McNeill Street to capture flow in wash
- Construct one basin south of the Western Canal west of 19th Avenue, and another between the Western Canal and the fire station on the north side of Dobbins Road; both outflowing to a new storm drain
- Add outfall from Humane Society channel to new basin that outfalls to storm drain to 27th and South Mountain Avenue Basin

